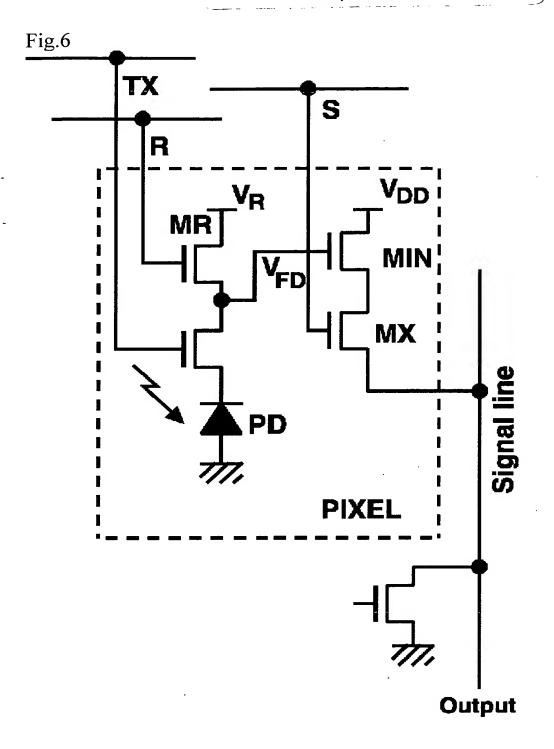


Fig.5 Pixel 5 output 4 фд V_{R1} C φв 3 4C 2-bit фС 2-bit digital output **2C** Ó ADC фр V_{R2} C $\varphi_{\pmb{\mathsf{D}}}\,\varphi_{\pmb{\mathsf{C}}}\,\varphi_{\pmb{\mathsf{B}}}\,\varphi_{\pmb{\mathsf{A}}}$ ϕ_2 о`∕о **Ф3** V_{REF} ф4 Analog residual output



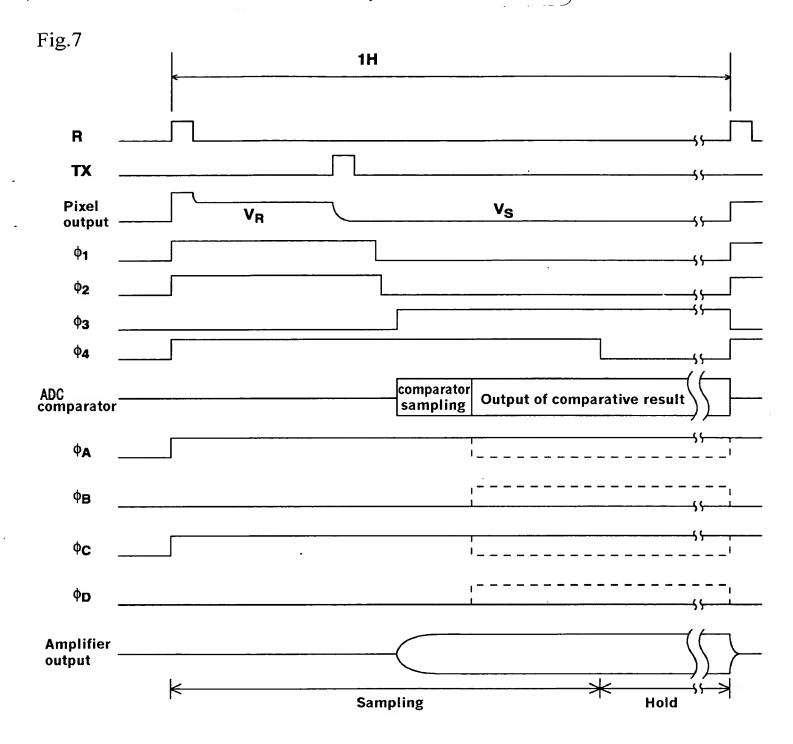


Fig.8

D	φΑ	φB	φC	ϕ D
0	1→1	0-0	1→1	0-0
1	1→0	0→1	1→1	0→0
2	1→1	O→O	1→0	0→1
3	1→0	0→1	1→0	0→1

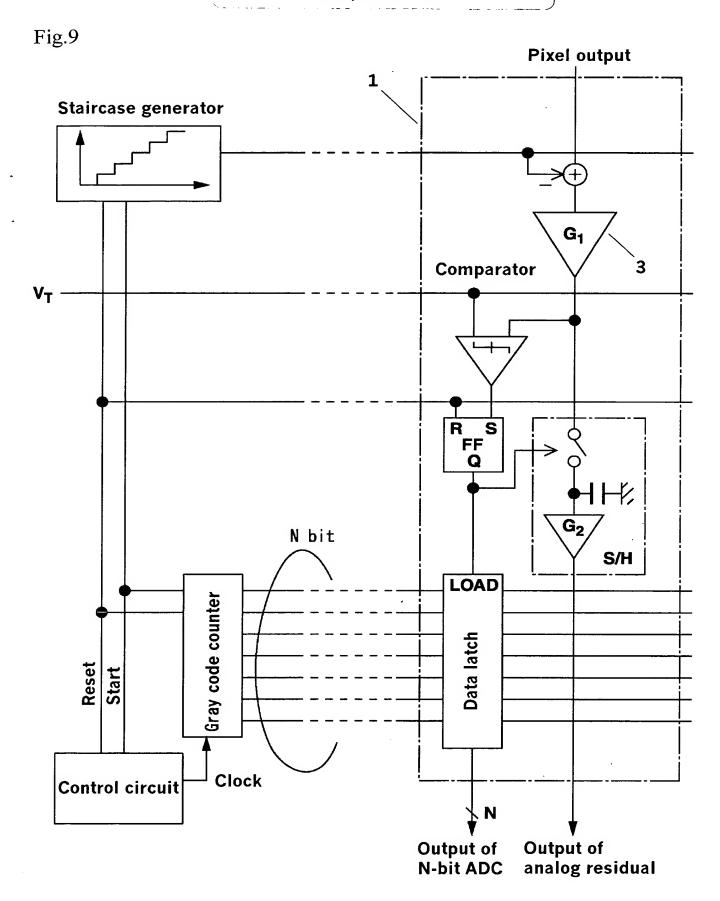
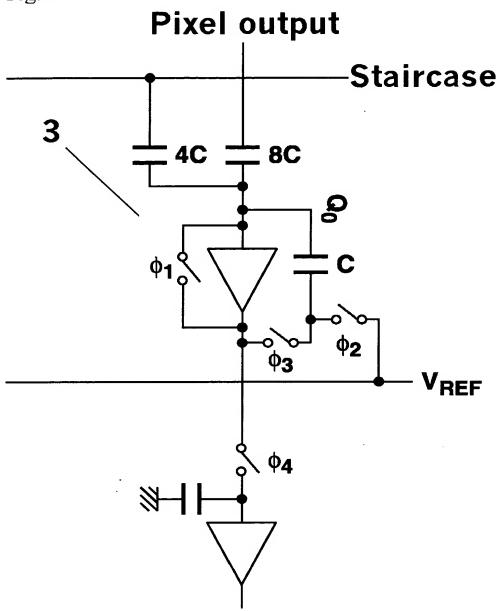
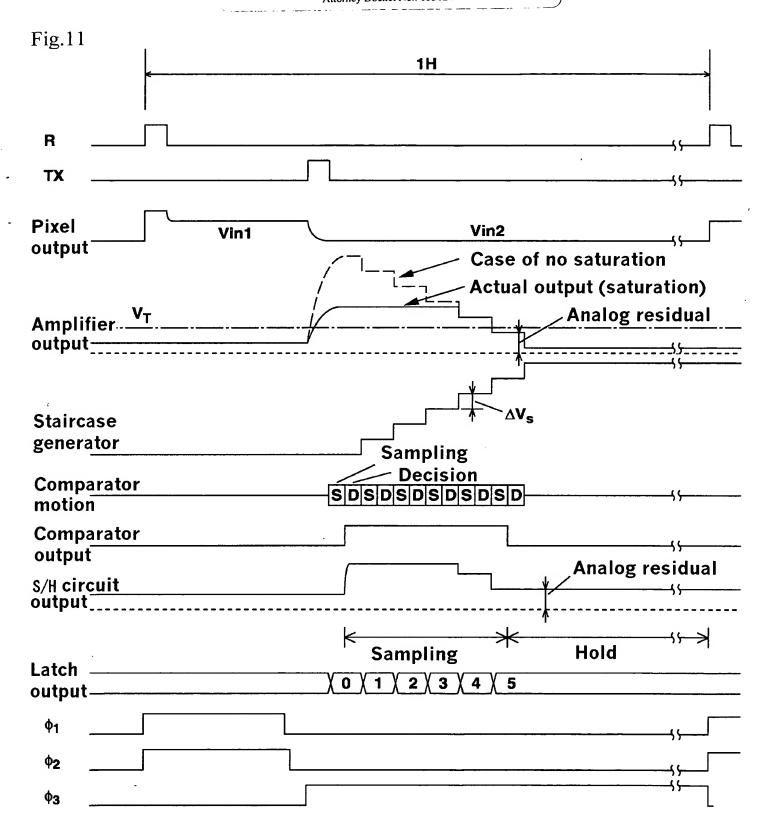
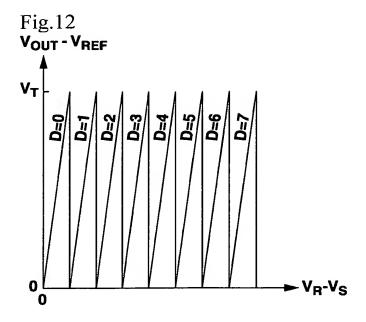


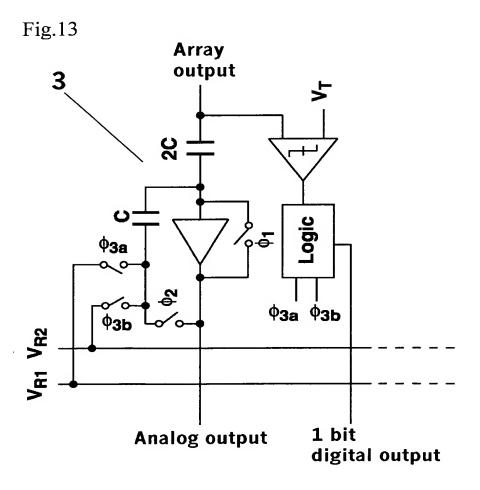
Fig.10



Output of analog residual







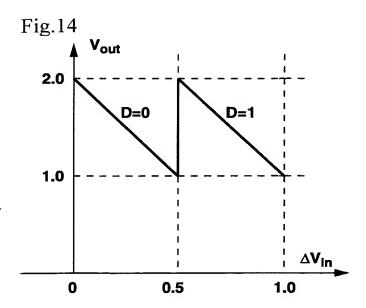


Fig.15

